

Rabbit anti-Human IRF3 Polyclonal Antibody | anti-IRF3 antibody

Anti-IRF3 Antibody

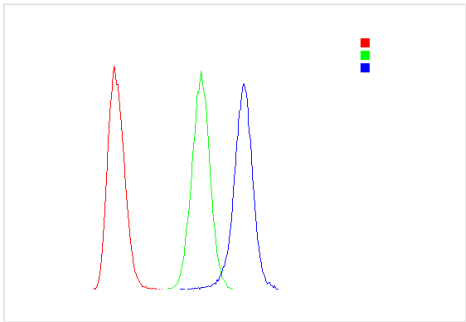
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19216	Rabbit	Human	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

IRF3; Polyclonal Antibody; Anti-IRF3 Antibody; Interferon regulatory factor 3; IRF-3; interferon regulatory factor 3; anti-IRF3 antibody

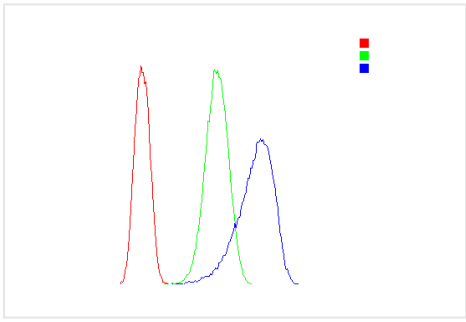
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for IRF3 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.01mg Na ₃ N.
Applicable Applications for anti-IRF3 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human IHC-P: 2-5ug/ml Human FC/FACS/FCM: 1-3ug/1x10 ⁶ cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human IRF3 recombinant protein (Position: K5-Q422).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



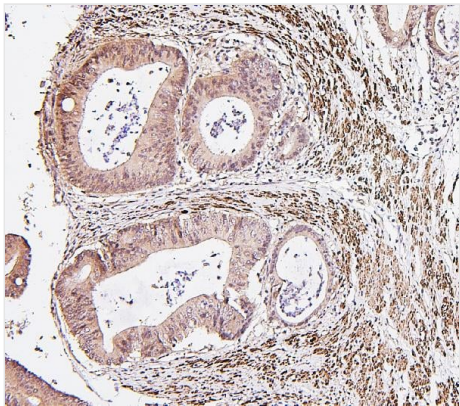
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of K562 cells using anti-IRF3 antibody (AAA19216).Overlay histogram showing K562 cells stained with AAA19216 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IRF3 Antibody (AAA19216, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



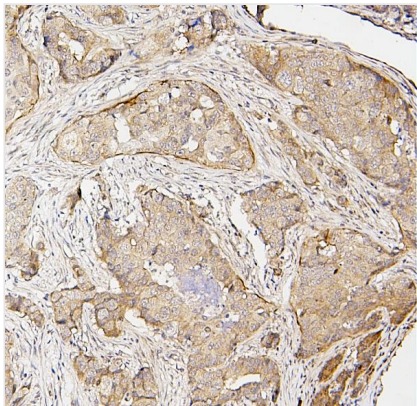
FCM (Flow Cytometry)

Figure 5. Flow Cytometry analysis of CACO-2 cells using anti-IRF3 antibody (AAA19216).Overlay histogram showing CACO-2 cells stained with AAA19216 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-IRF3 Antibody (AAA19216, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



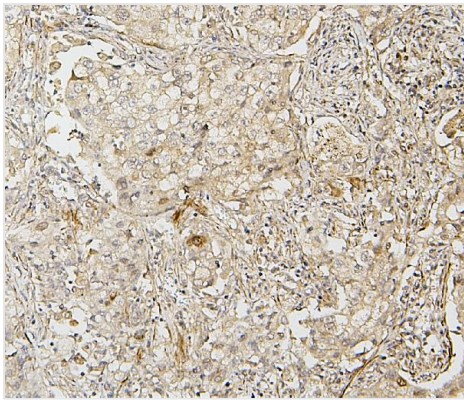
IHC (Immunohistochemistry)

Figure 4. IHC analysis of IRF3 using anti-IRF3 antibody (AAA19216).IRF3 was detected in paraffin-embedded section of human rectal cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-IRF3 Antibody (AAA19216) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



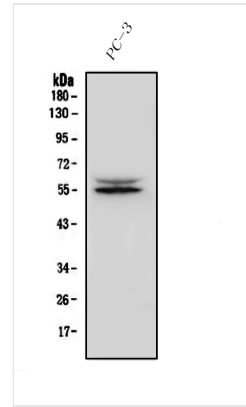
IHC (Immunohistochemistry)

Figure 3. IHC analysis of IRF3 using anti-IRF3 antibody (AAA19216).IRF3 was detected in paraffin-embedded section of human mammary cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-IRF3 Antibody (AAA19216) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of IRF3 using anti-IRF3 antibody (AAA19216). IRF3 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-IRF3 Antibody (AAA19216) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



WB (Western Blot)

Figure 1. Western blot analysis of IRF3 using anti-IRF3 antibody (AAA19216). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50µg of sample under reducing conditions. Lane 1: human PC-3 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-IRF3 antigen affinity purified polyclonal antibody (Catalog # AAA19216) at 0.5 µg/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # Tanon 5200 system). A specific band was detected for IRF3 at approximately 55KD. The expected band size for IRF3 is at 55KD.

ADDITIONAL INFORMATION

Related Product Information for anti-IRF3 antibody	IRF3(interferon regulatory factor 3) is a member of the interferon regulatory transcription factor (IRF) family. The IRF3 gene is mapped on 19q13.33. IRF3 is found in an inactive cytoplasmic form that upon serine/threonine phosphorylation forms a complex with CREBBP. IRF3 plays an important role in the innate immune system's response to viral infection. Aggregated MAVS have been found to activate IRF3 dimerization. Although IRF3 increased transcriptional activity from an ISRE-containing promoter, expression of IRF3 as a Gal4 fusion protein did not activate expression of a chloramphenicol acetyltransferase (CAT) reporter gene containing repeats of the Gal4-binding sites. Translocation of IRF3 was accompanied by an increase in serine and threonine phosphorylation. The transcriptional activators CREBBP and EP300 coimmunoprecipitated with IRF3 only subsequent to viral infection, and the authors stated that these are also subunits of DRAF1.
References	1. Bellingham, J., Gregory-Evans, K., Gregory-Evans, C. Y. Mapping of human interferon regulatory factor 3 (IRF3) to chromosome 19q13.3-13.4 by an intragenic polymorphic marker. <i>Ann. Hum. Genet.</i> 62: 231-234, 1998. 2. Doyle, S. E., Vaidya, S. A., O'Connell, R., Dadgostar, H., Dempsey, P. W., Wu, T. -T., Rao, G., Sun, R., Haberland, M. E., Modlin, R. L., Cheng, G. IRF3 mediates a TLR3/TLR4-specific antiviral gene program. <i>Immunity</i> 17: 251-263, 2002. 3. Stetson, D. B., Medzhitov, R. Recognition of cytosolic DNA activates an IRF3-dependent innate immune response. <i>Immunity</i> 24: 93-103, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	308199450
NCBI GeneID	3661
NCBI Accession #	NP_001184053.1
NCBI GenBank Nucleotide #	NM_001197124.1
UniProt Accession #	Q14653 ; Q5FBY1 ; A8K7L2
Molecular Weight	47,219 Da
NCBI Official Full Name	interferon regulatory factor 3 isoform 4
NCBI Official Synonym Full Names	interferon regulatory factor 3

NCBI Official Symbol	IRF3
NCBI Protein Information	interferon regulatory factor 3
UniProt Protein Name	Interferon regulatory factor 3
UniProt Gene Name	IRF3
UniProt Synonym Gene Names	IRF-3
UniProt Entry Name	IRF3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/irf3-antibody-western-blot-immunohistochemistry-flow-cytometry-direct-elisa-elisa/19216>